

CLASS SPECIFICATION
County of Fairfax, Virginia

CLASS CODE: 1876

TITLE: SYSTEMS PROGRAMMER II

GRADE: S-29

DEFINITION:

Under general supervision, researches, plans, implements and maintains computer operating software systems; monitors system performance; leads and coordinates the implementation of new systems or systems enhancements; manages projects that include integration of products; instructs and guides trainees and lower level computer systems programmers; provides level 2 help desk support; and performs related work as required.

DISTINGUISHING CHARACTERISTICS OF THE CLASS:

The Systems Programmer II is distinguished from the Systems Programmer I in that the Systems Programmer II performs the most unusual and complex work and serves as team leader over two or more systems programmers in the implementation of new systems and enhancements.

ILLUSTRATIVE DUTIES:

Serves as team leader on the implementation of new systems or systems enhancements;
Plans, coordinates, organizes, and directs project activities;
Instructs and provides guidance and assistance to less experienced systems programmers;
Implements and maintains operating software and software packages;
Ensures that programs and packages meet specifications, function properly, and are installed so that any disruption of services is minimized;
Researches, designs, implements, and maintains complex operating systems;
Oversees related data management;
Customizes, troubleshoots, analyzes performance and tunes, evaluates software, and provides customer support for system;
Monitors and analyzes system and software performance;
Designs and implements action and policies and procedures for efficient system utilization;
Develops and maintains standards, procedures, and documentation related to assigned systems software;
Provides technical support for other development and maintenance programmers and analysts;
Provides Level 2 help desk support;
Aids users in determining the cause of software problems, provides corrective procedures, and documents problems/solutions;
Conducts research and feasibility studies for software and hardware evaluation;
Makes recommendations based on findings;
Develops procedures for disaster recovery;
Provides testing to verify procedures and documentation;
Provides assistance to other staff as needed;
Provides guidance, assistance, and training to less experienced workers.

REQUIRED KNOWLEDGE, SKILLS AND ABILITIES:

Considerable knowledge of the appropriate mainframe computer operating systems;
Considerable knowledge of programming principles;
Considerable knowledge of multi-platform program languages;
Considerable knowledge of the operating system software of an electronic data processing system;
Considerable knowledge of the capabilities, operating requirements, and unique characteristics of the system hardware;
Considerable knowledge of block diagraming, flow charting, and procedural report writing;
Ability to research, develop, design, implement, and maintain complex operating systems;
Ability to diagnose systems problems and to provide clear, understandable solutions;
Ability to guide, train and assist technical employees and to review their work;
Ability to efficiently monitor program development and thoroughly document necessary system modifications and enhancements;
Ability to establish and maintain effective business relationships;
Ability to prepare clear, structured programs of a highly complex nature for efficient machine utilization;
Ability to write comprehensible technical system documentation;
Ability to communicate with users and translate technical matters into understandable terms.

EMPLOYMENT STANDARDS:

Any combination of education, experience and training equivalent to the following:
Possession of an associate's degree in computer science or related field; PLUS
Four years' systems programming experience; OR
Possession of a bachelor's degree in computer science, or closely related field; PLUS
Two years' systems programming experience in a complex information systems environment.

CERTIFICATES AND LICENSES REQUIRED:

None.

ESTABLISHED: May 24, 1999